



PIONEER

Pioneer Energy Services

Borehole Compensated Sonic Log

API No.

15-193-20,925-00-00

Company **Questa Energy Corporation**

Well **Bertrand No. 2-22**

Field **Ohl**

County **Thomas**

State **Kansas**

Location **2,548' FNL & 1,868' FEL**

Sec: **22**

Twp: **9S**

Rge: **32W**

Other Services
CNL/CDL
MEL/DIL

Permanent Datum **Ground Level** Elevation **3071**

Log Measured From **Kelly Bushing** 10 Ft. Above Perm. Datum

K.B. 3081
D.F.
G.L. 3071

Date **9/13/2014**

Run Number **Two**

Type Log **BHC Sonic**

Depth Driller **4730**

Depth Logger **4730**

Bottom Logged Interval **4719**

Top Logged Interval **350**

Type Fluid In Hole **Chemical**

Salinity, PPM CL **1800**

Density **9.2**

Level **Full**

Max. Rec. Temp. F **123**

Operating Rig Time **4 1/2 Hours**

Equipment -- Location **108 Hays**

Recorded By **J. Long**

Witnessed By **Justin Carter**

Borehole Record

Casing Record

Run No

Bit

From

To

Size

Wgt.

From

To

One

12.25

00

356

8.625

23#

00

356

Two

7.875

356

TD

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

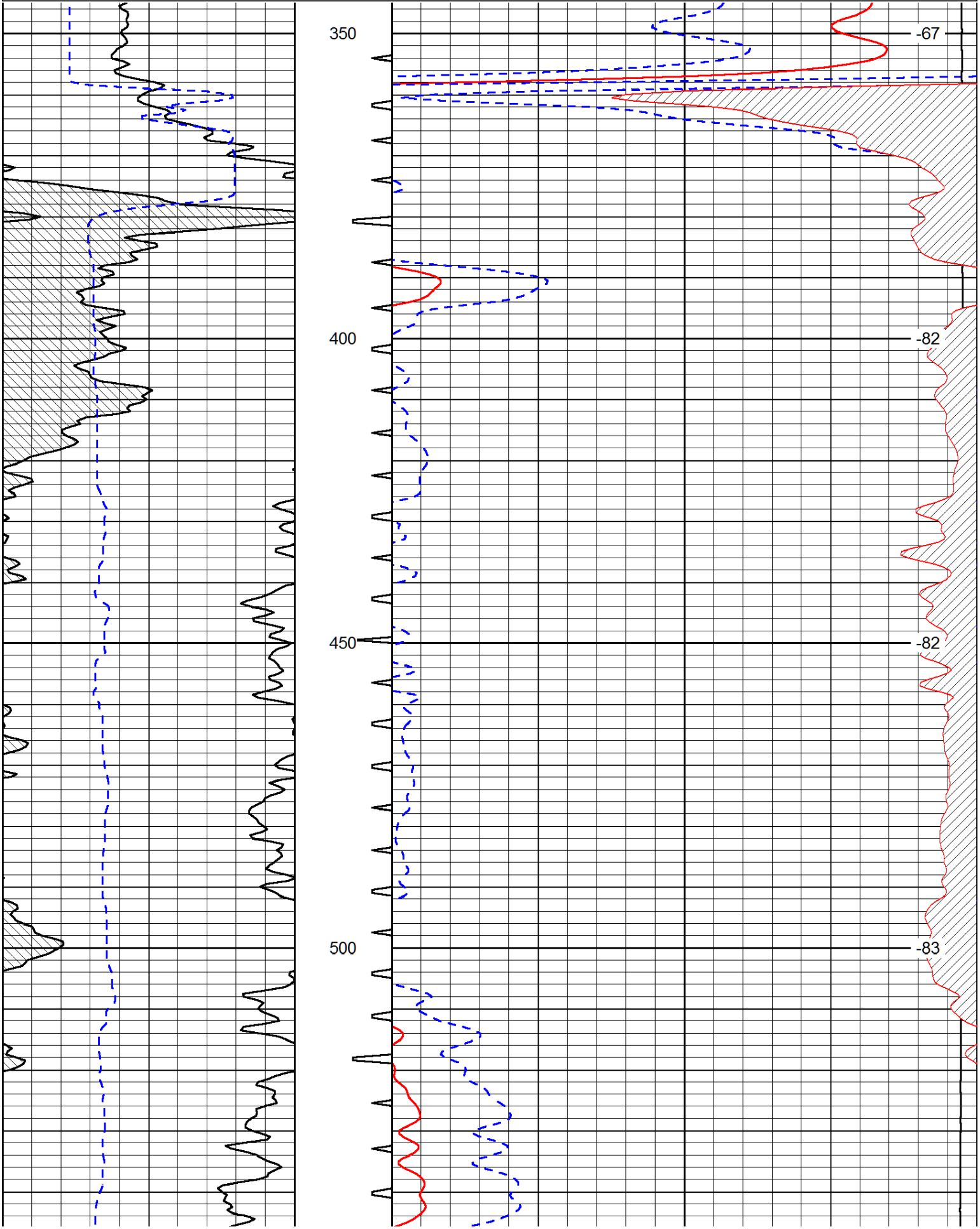
Comments

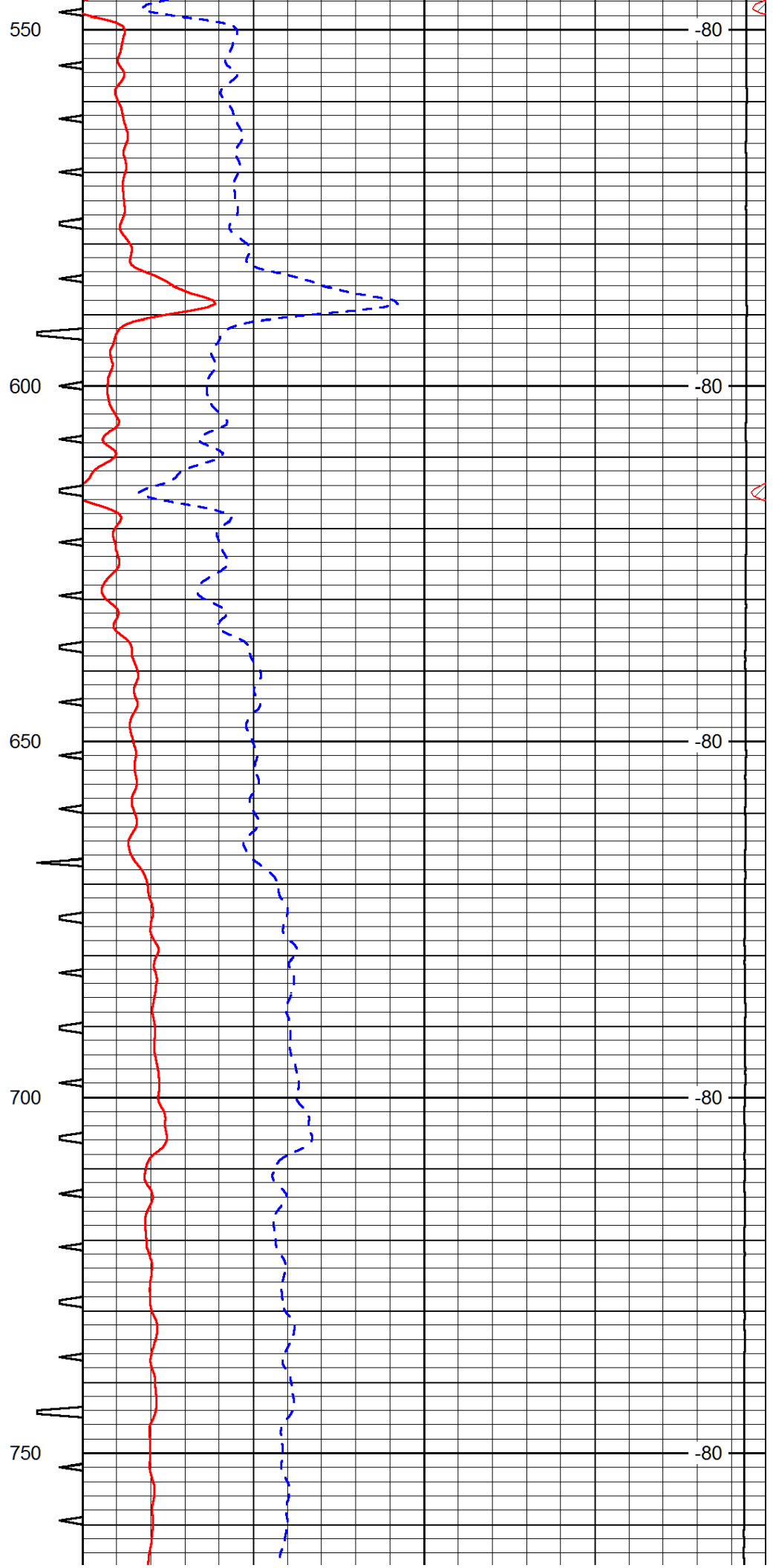
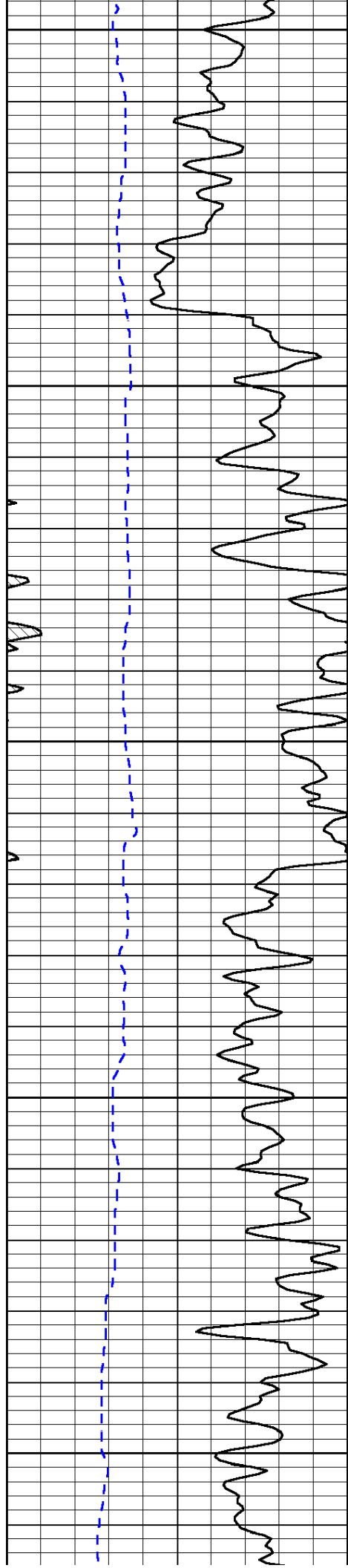
Thank you for using Log-Tech, Inc.
(785) 625-3858

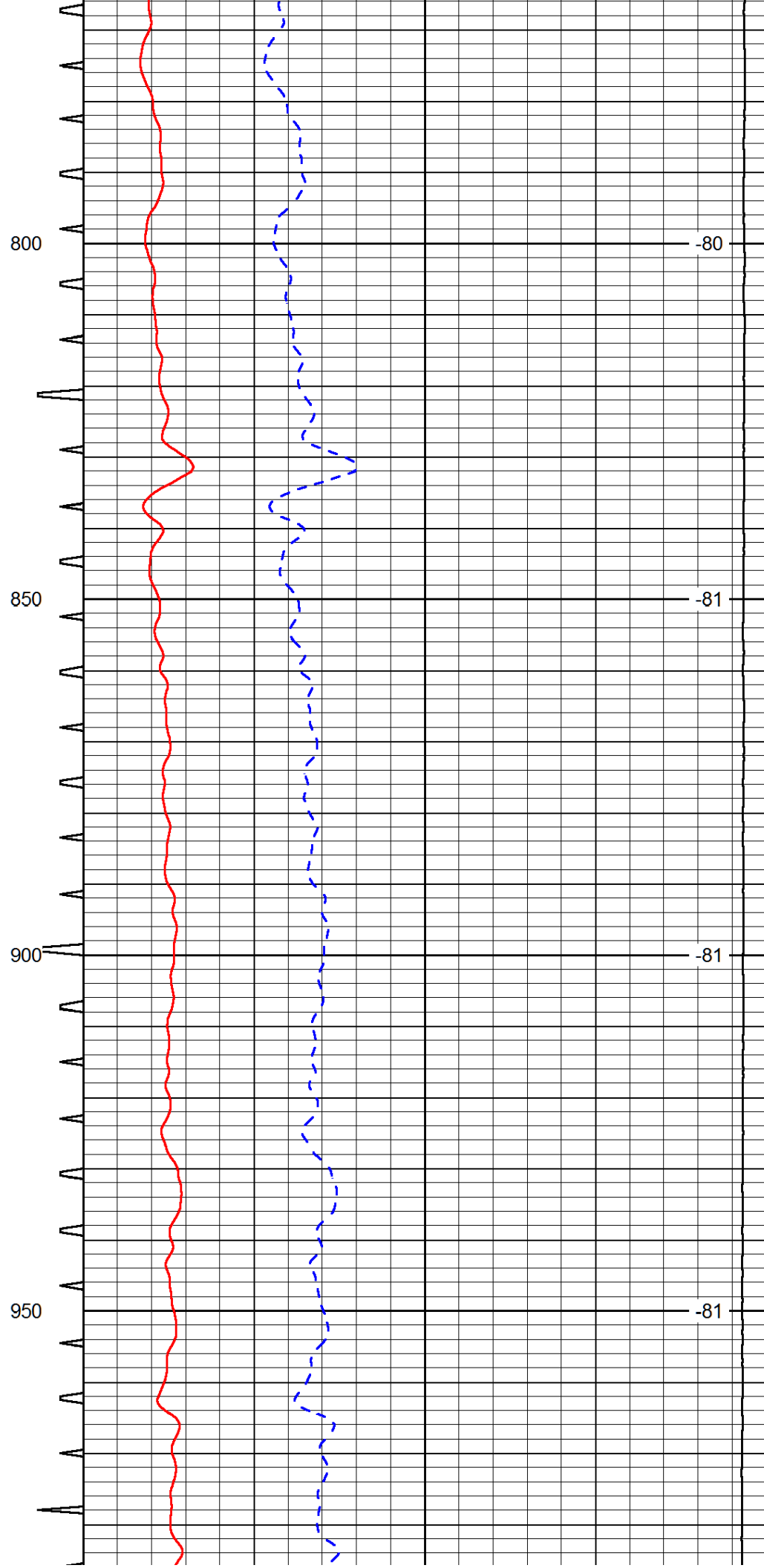
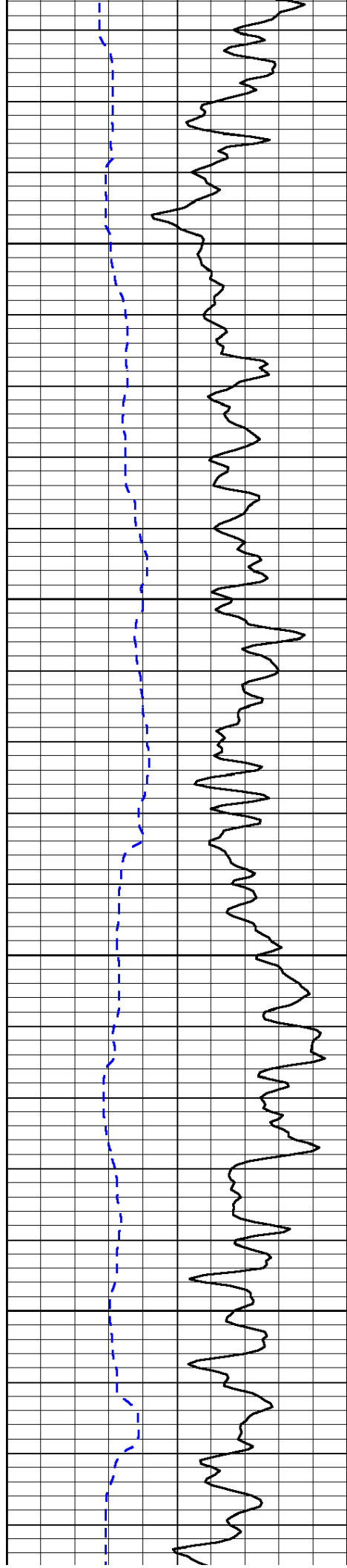
Oakley (Highway 83 & I-70 Intersection), 4 1/2 North, West Into

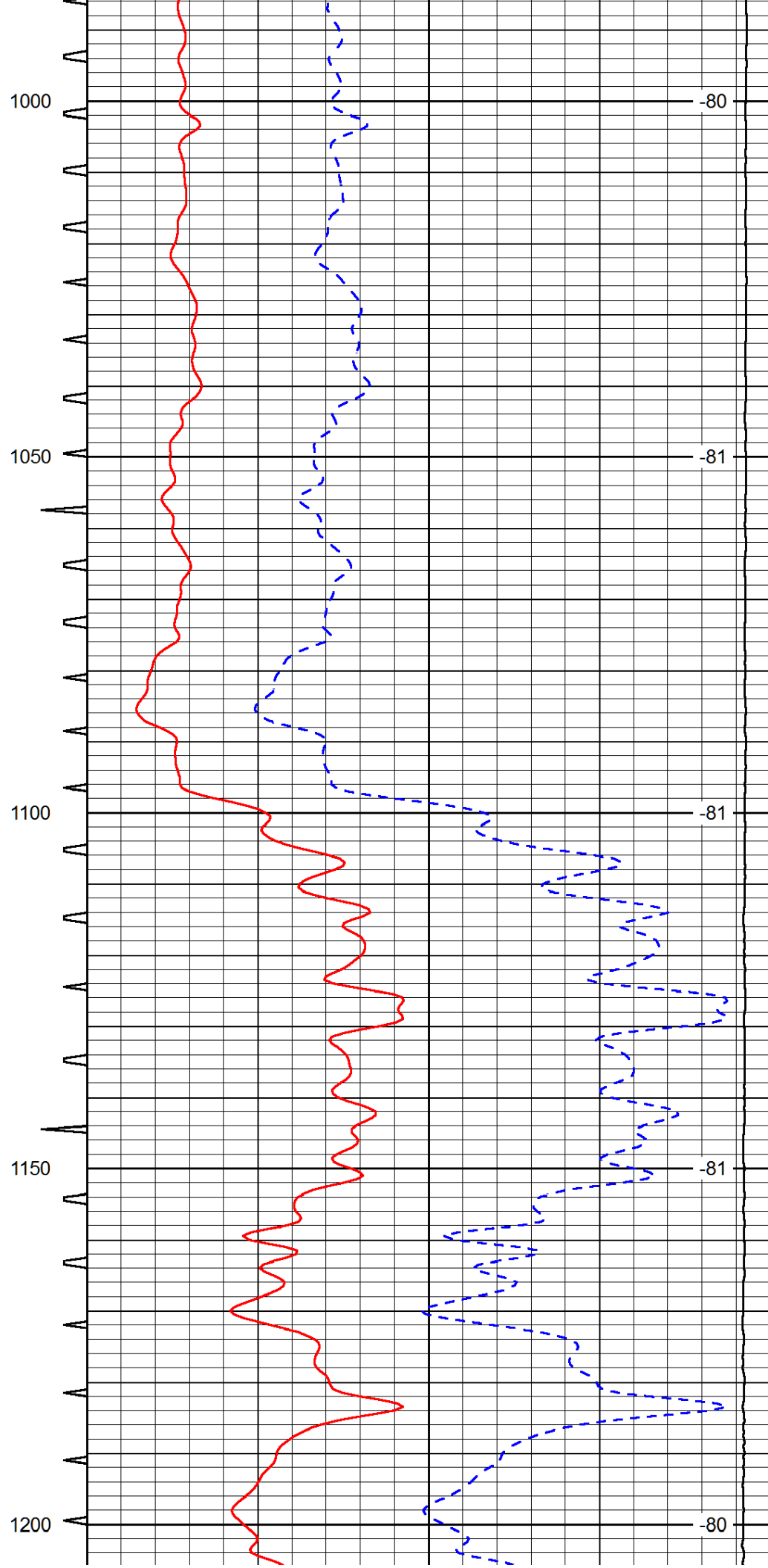
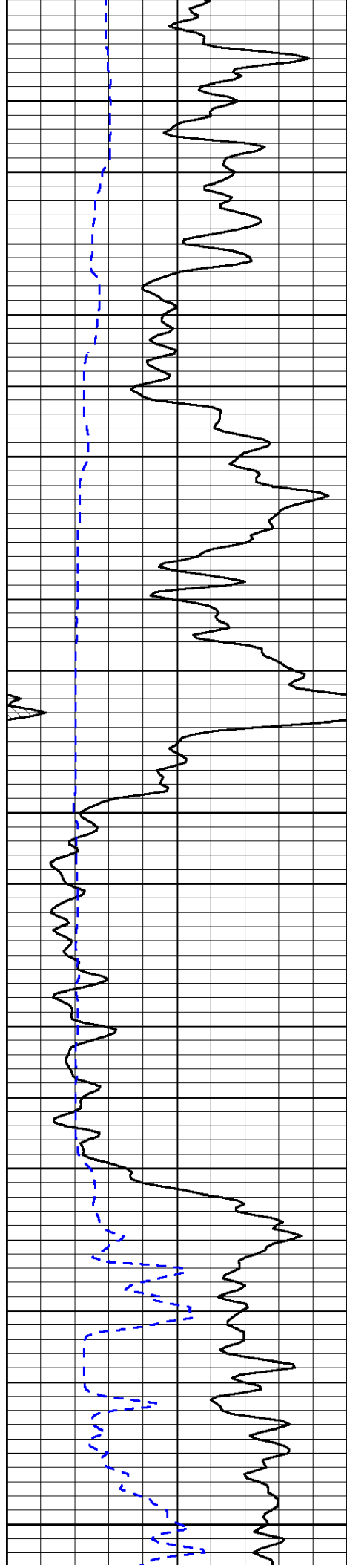
Database File: **questa_bertrand_2-22hd.db**
Dataset Pathname: **dil/quesstck**
Presentation Format: **sonic**
Dataset Creation: **Sat Sep 13 08:45:52 2014**
Charted by: **Depth in Feet scaled 1:240**

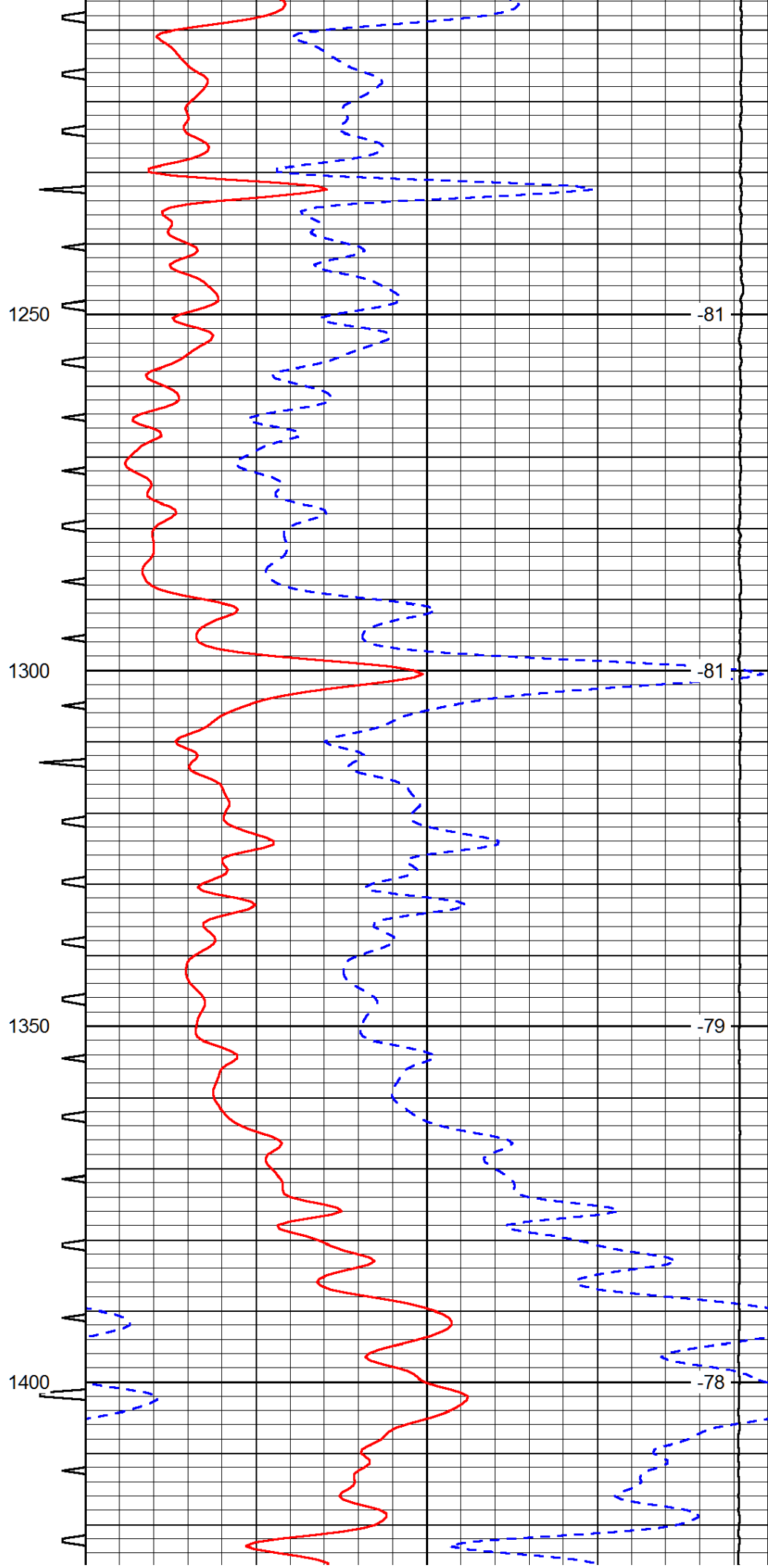
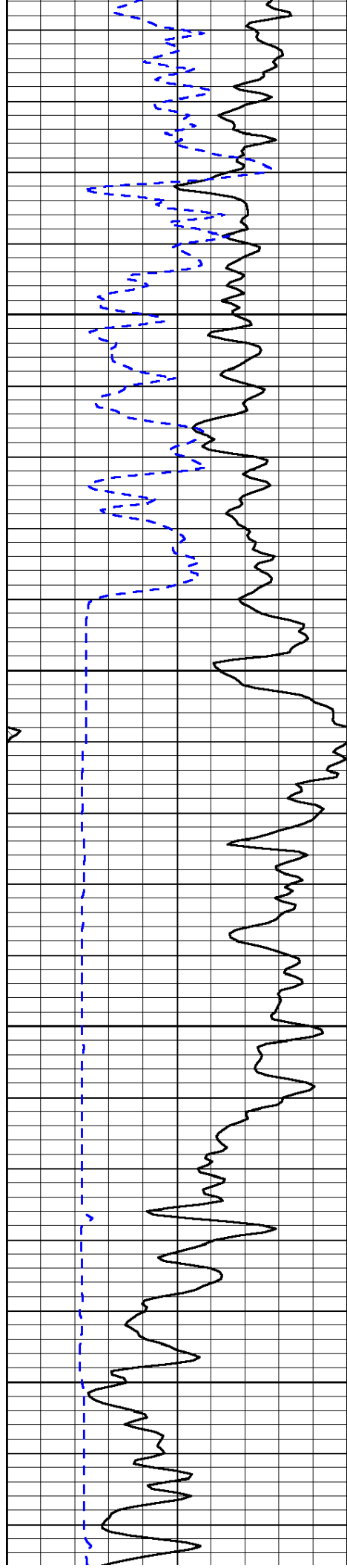
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150	Gamma Ray	300	5	0	Sonic Porosity	-10
6	dCAL (GAPI)	16		15000	LTEN (lb)	0
						LSPD

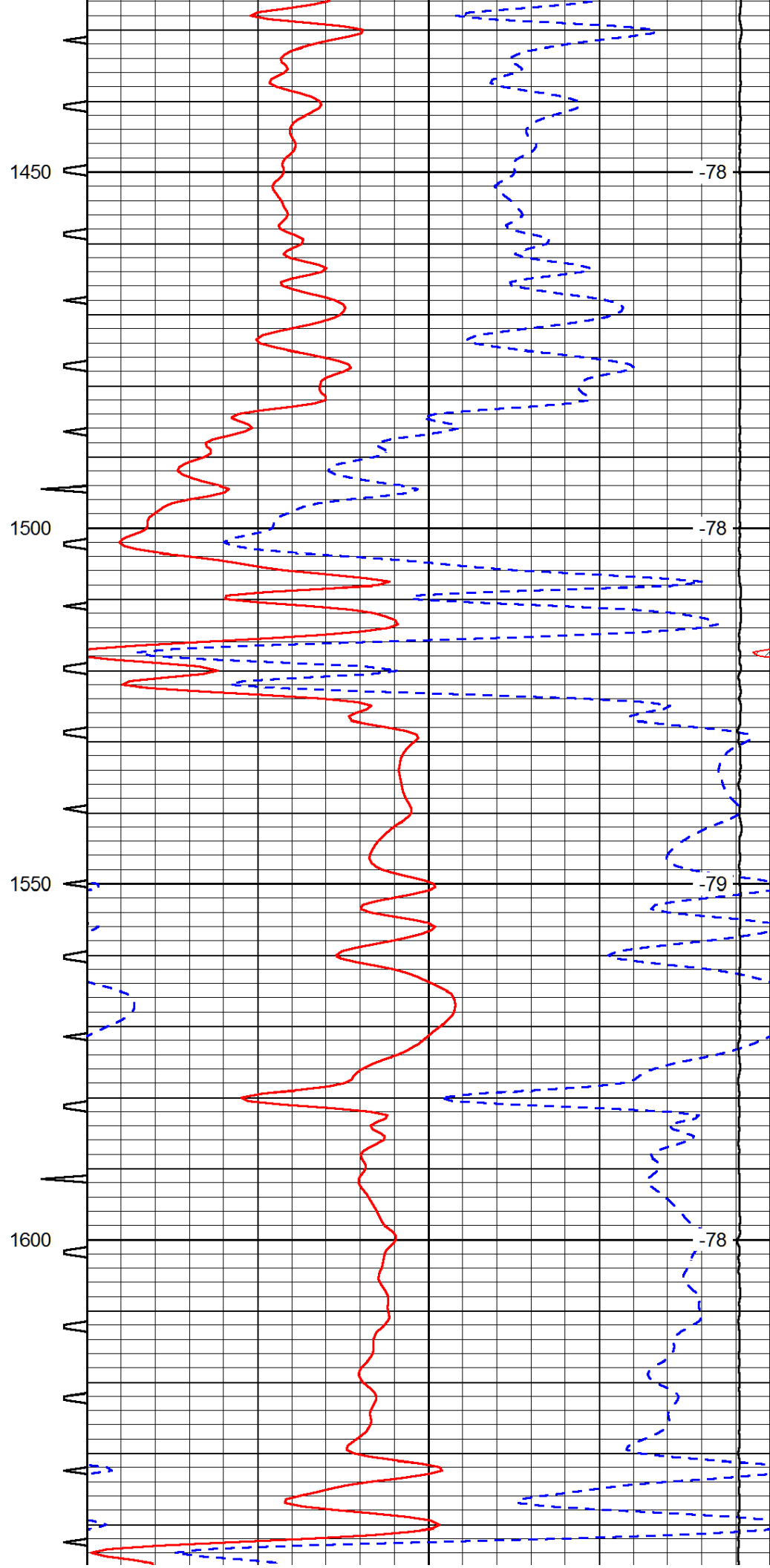
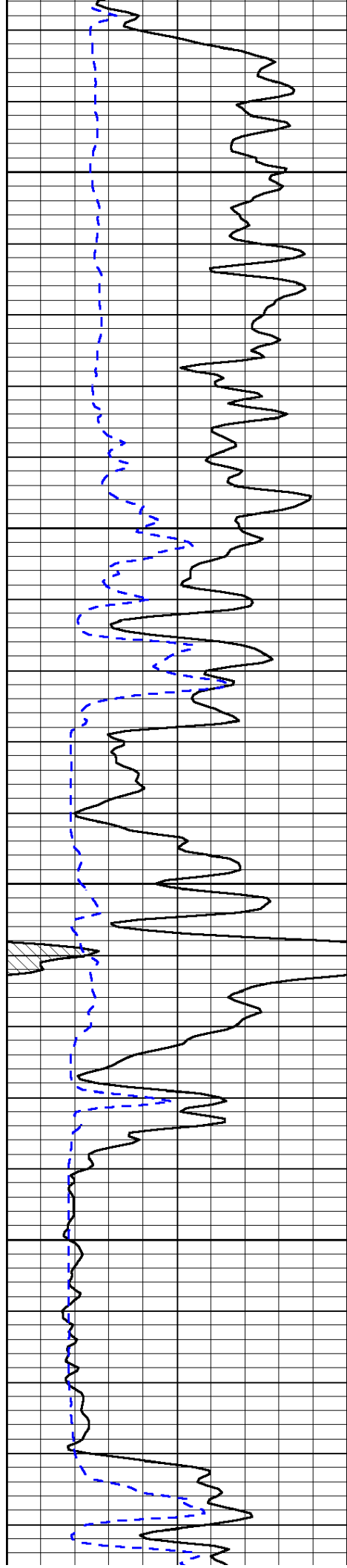


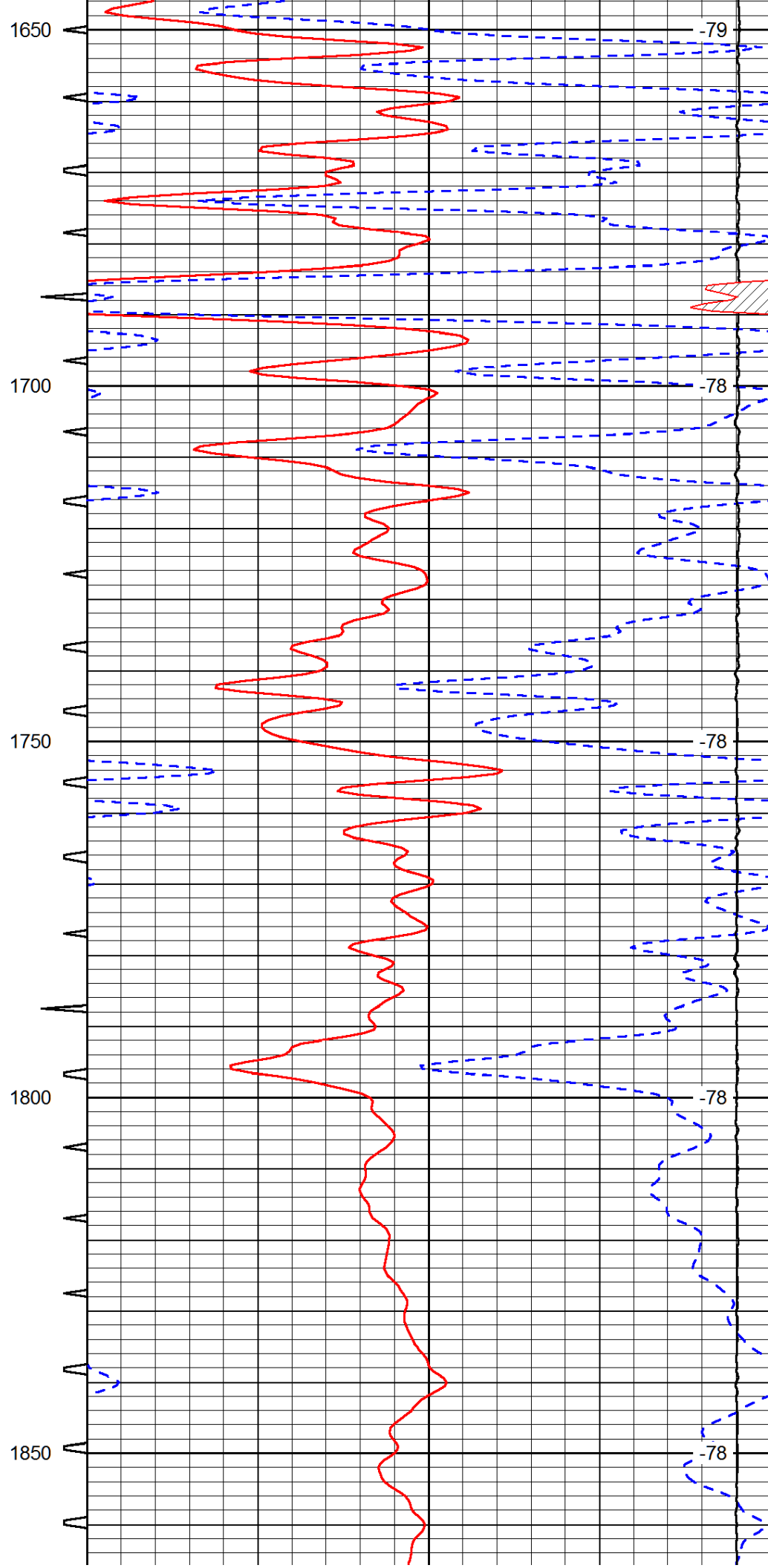
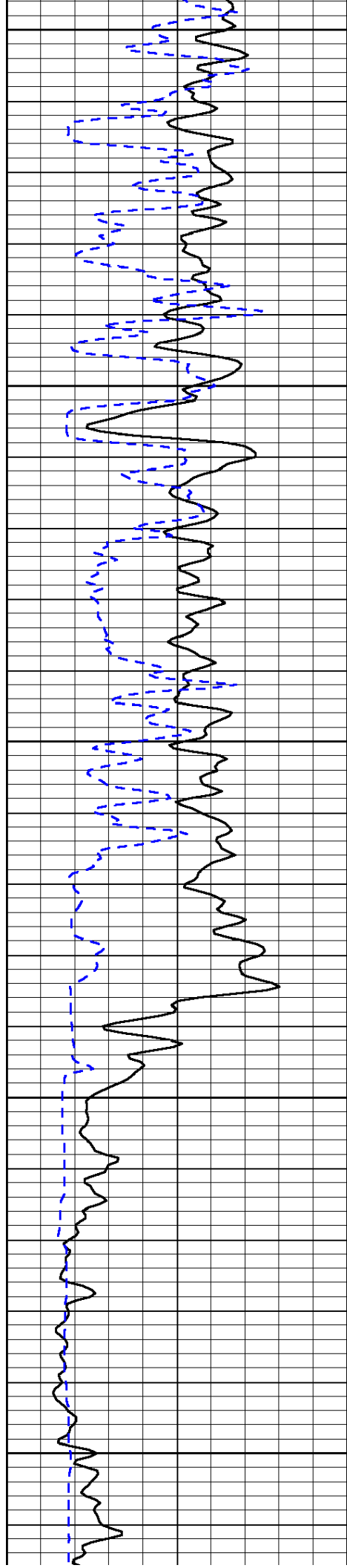


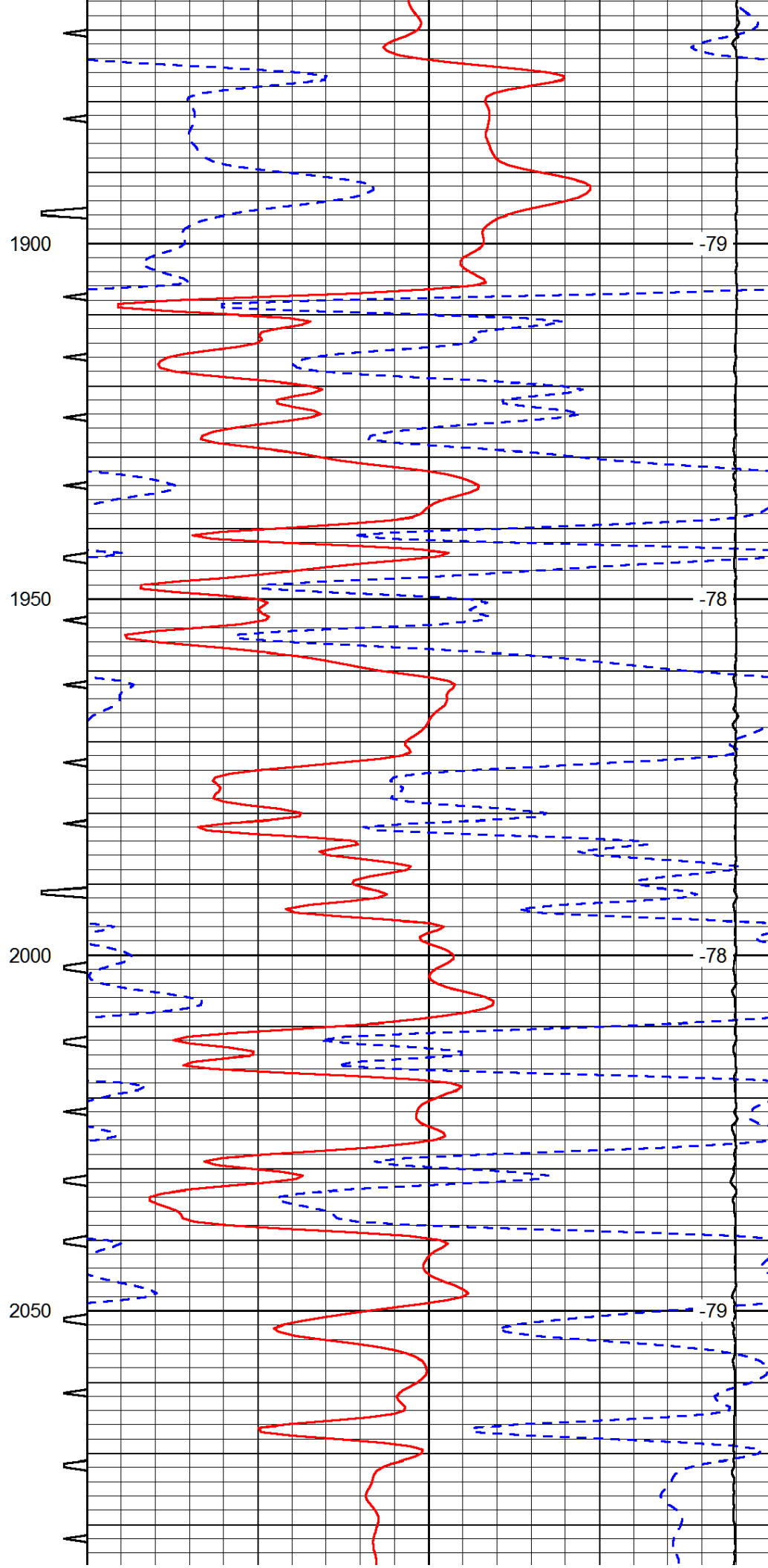
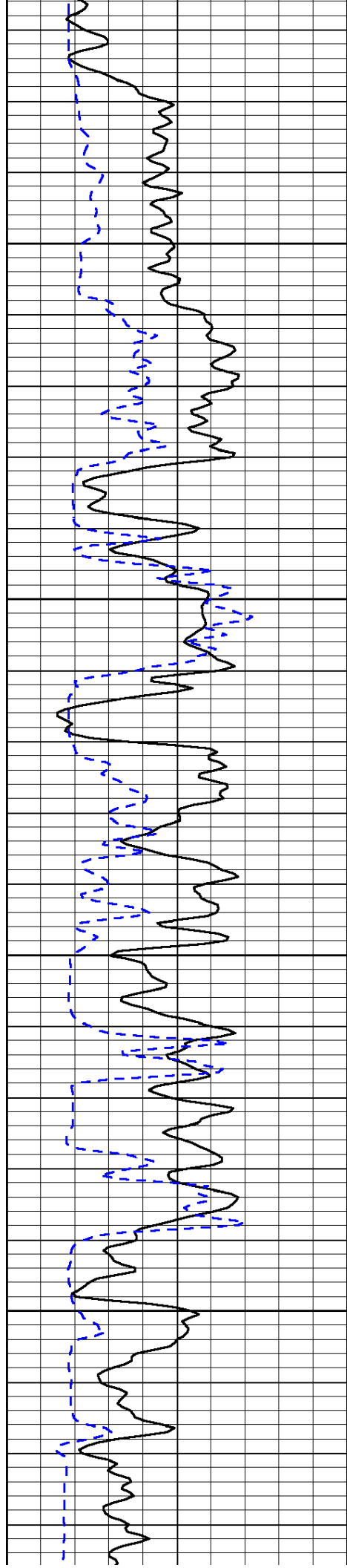


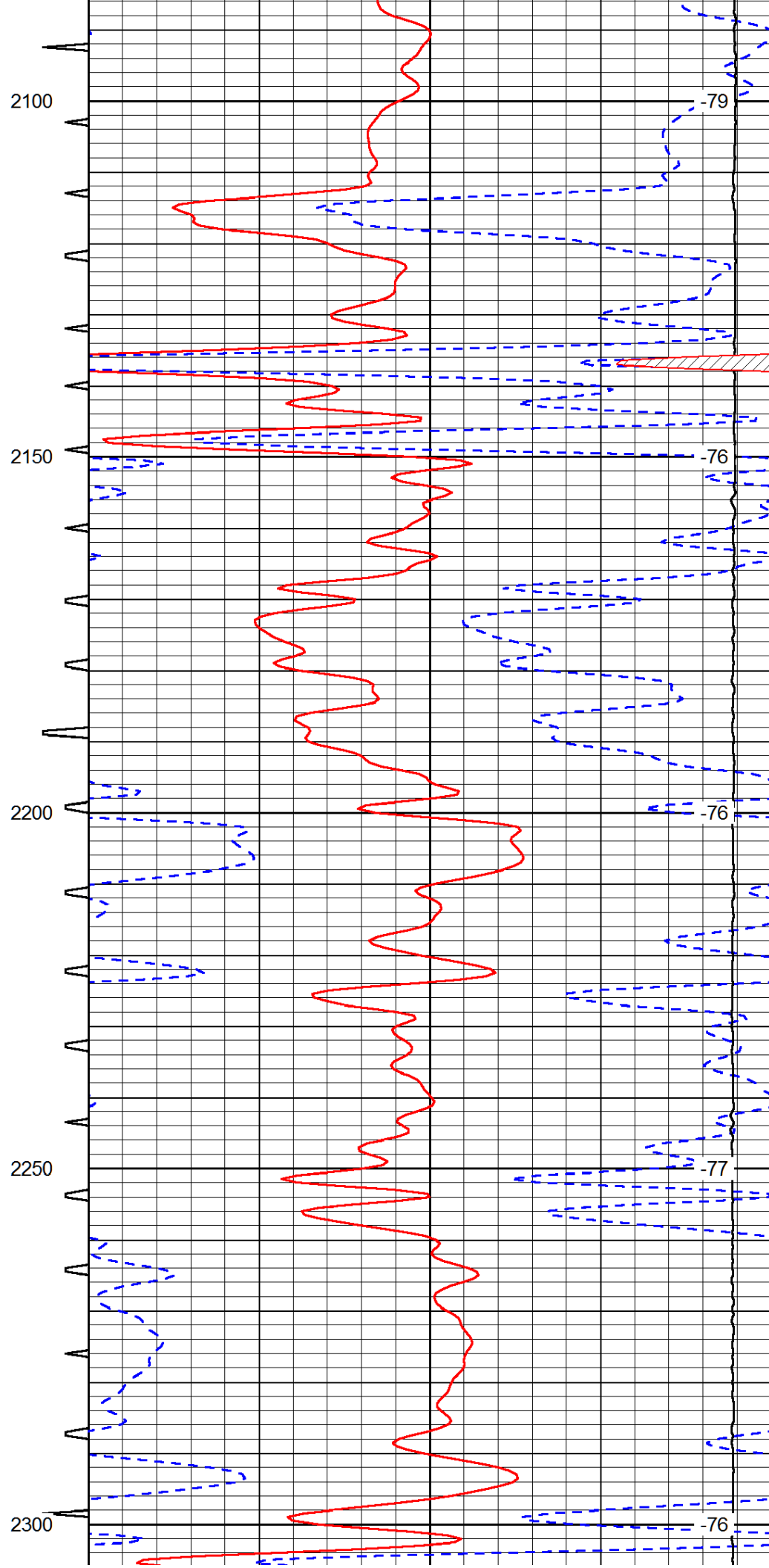
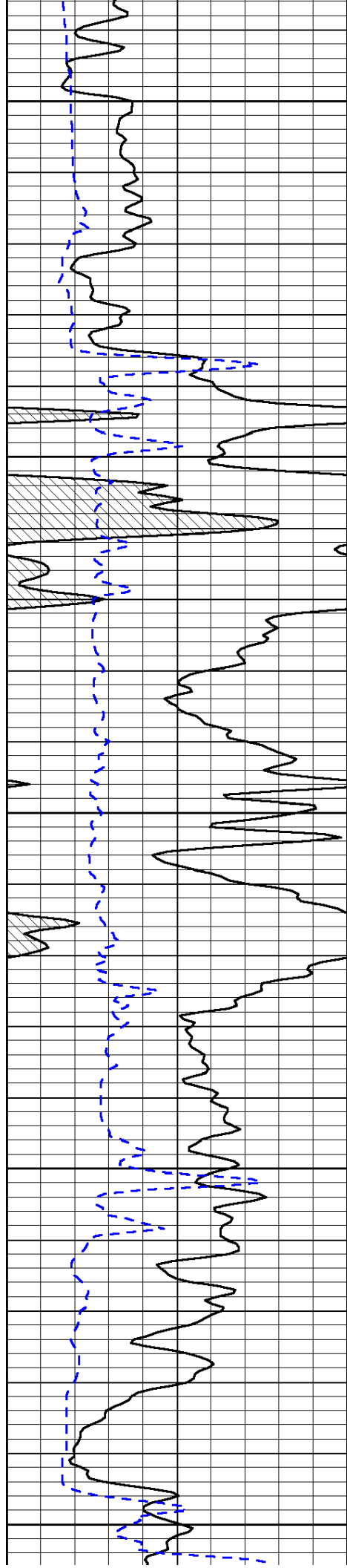


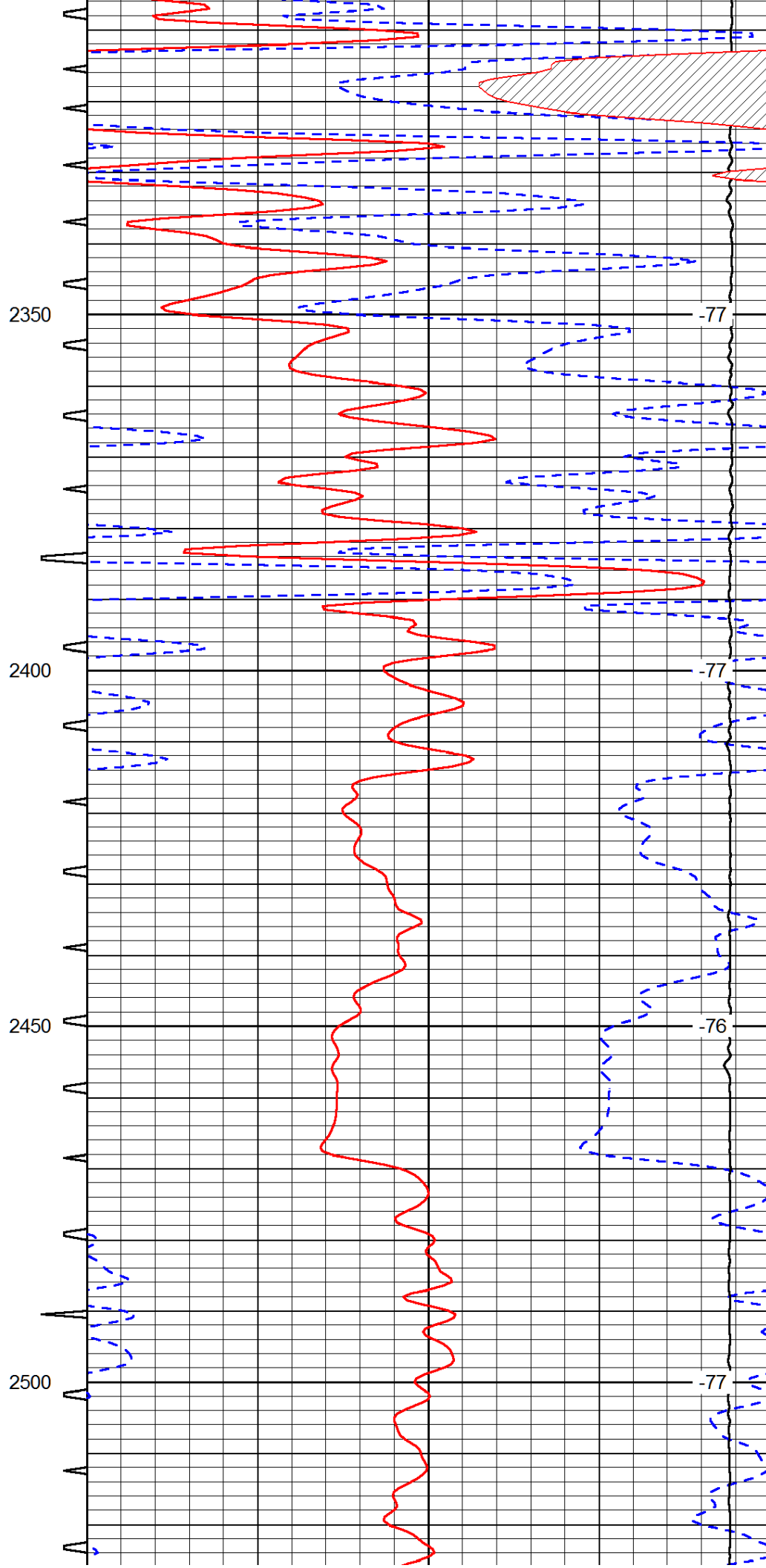
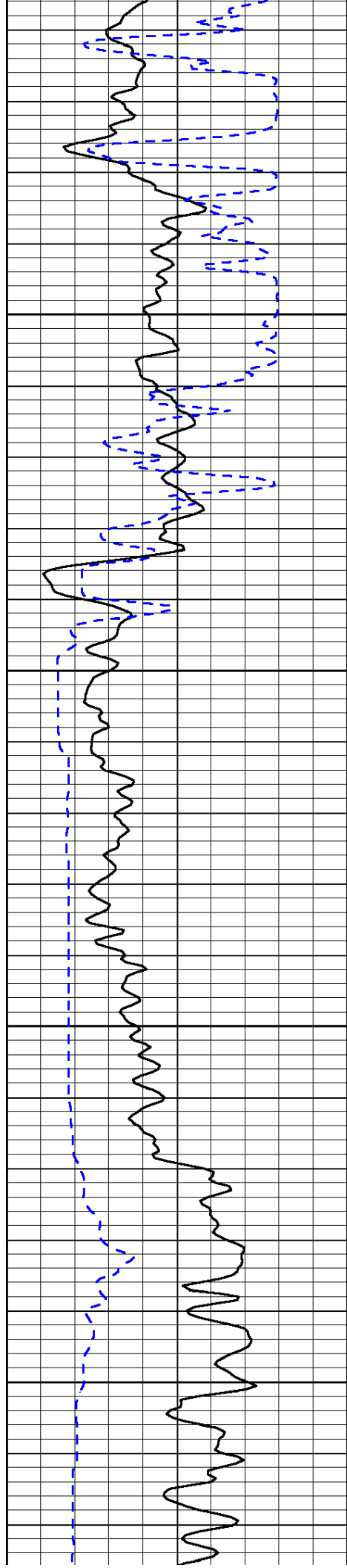


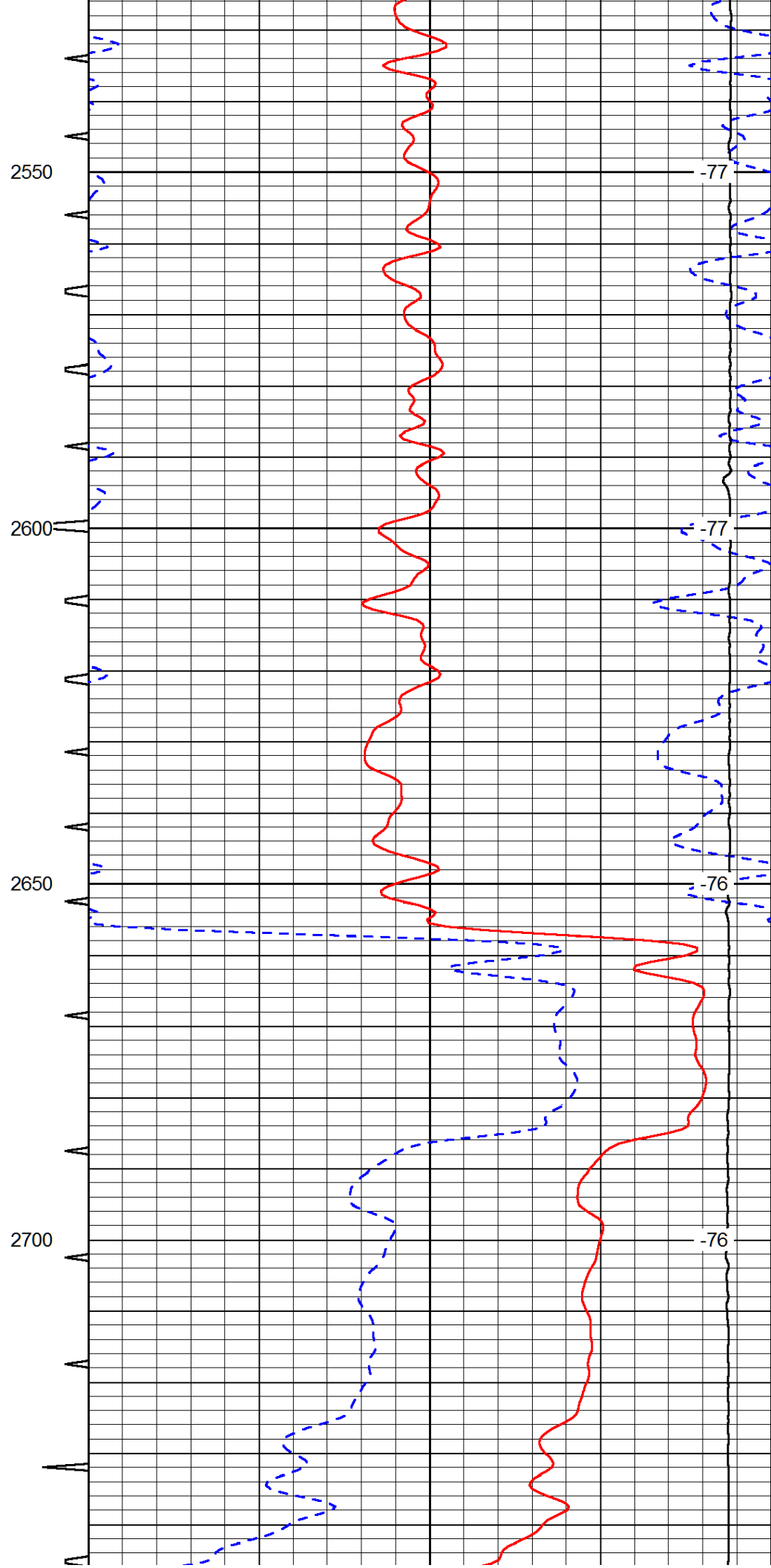
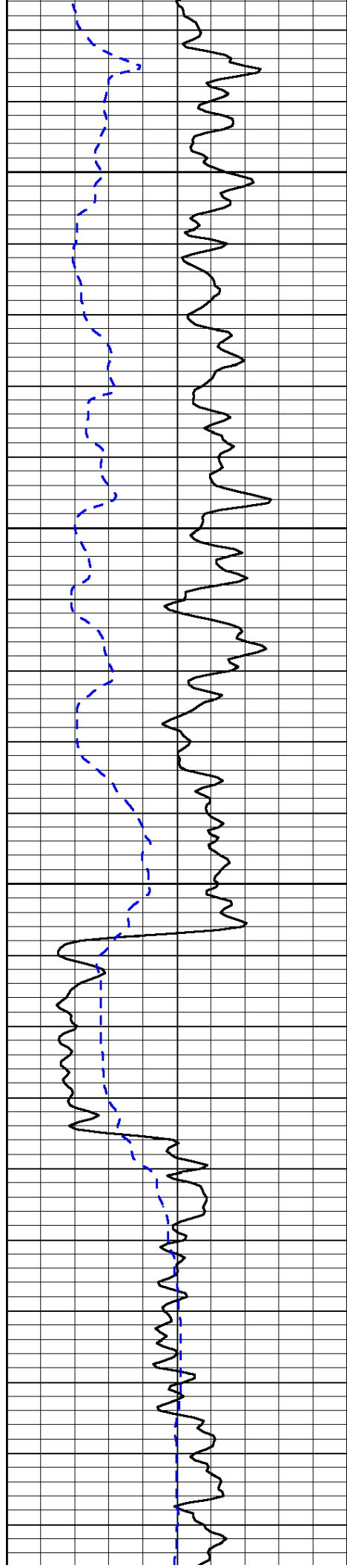


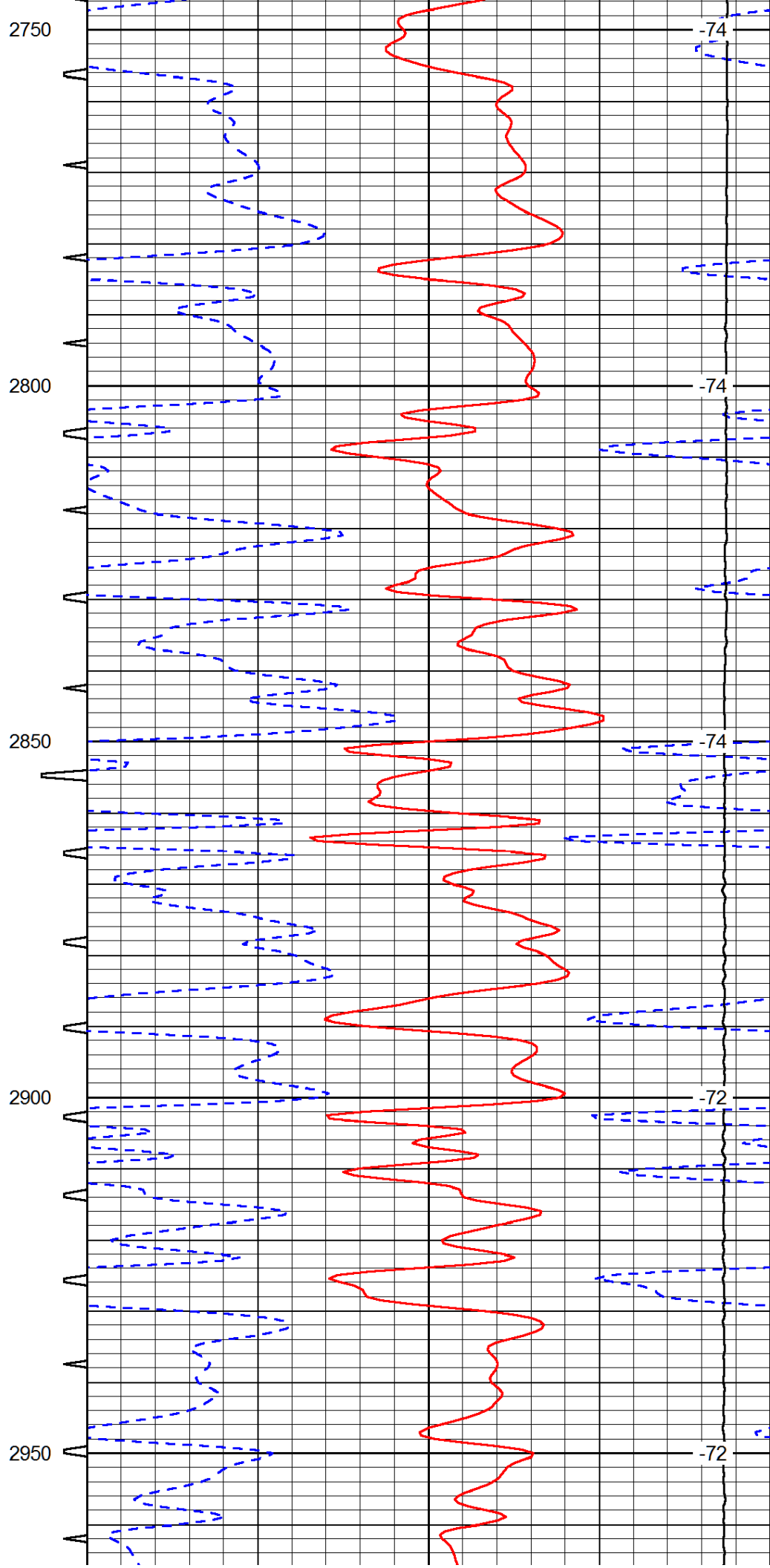
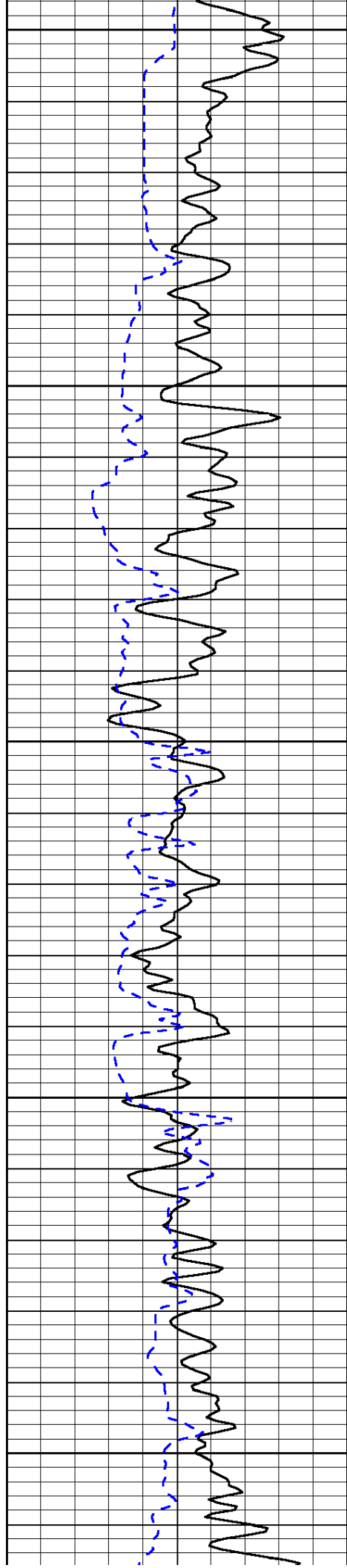


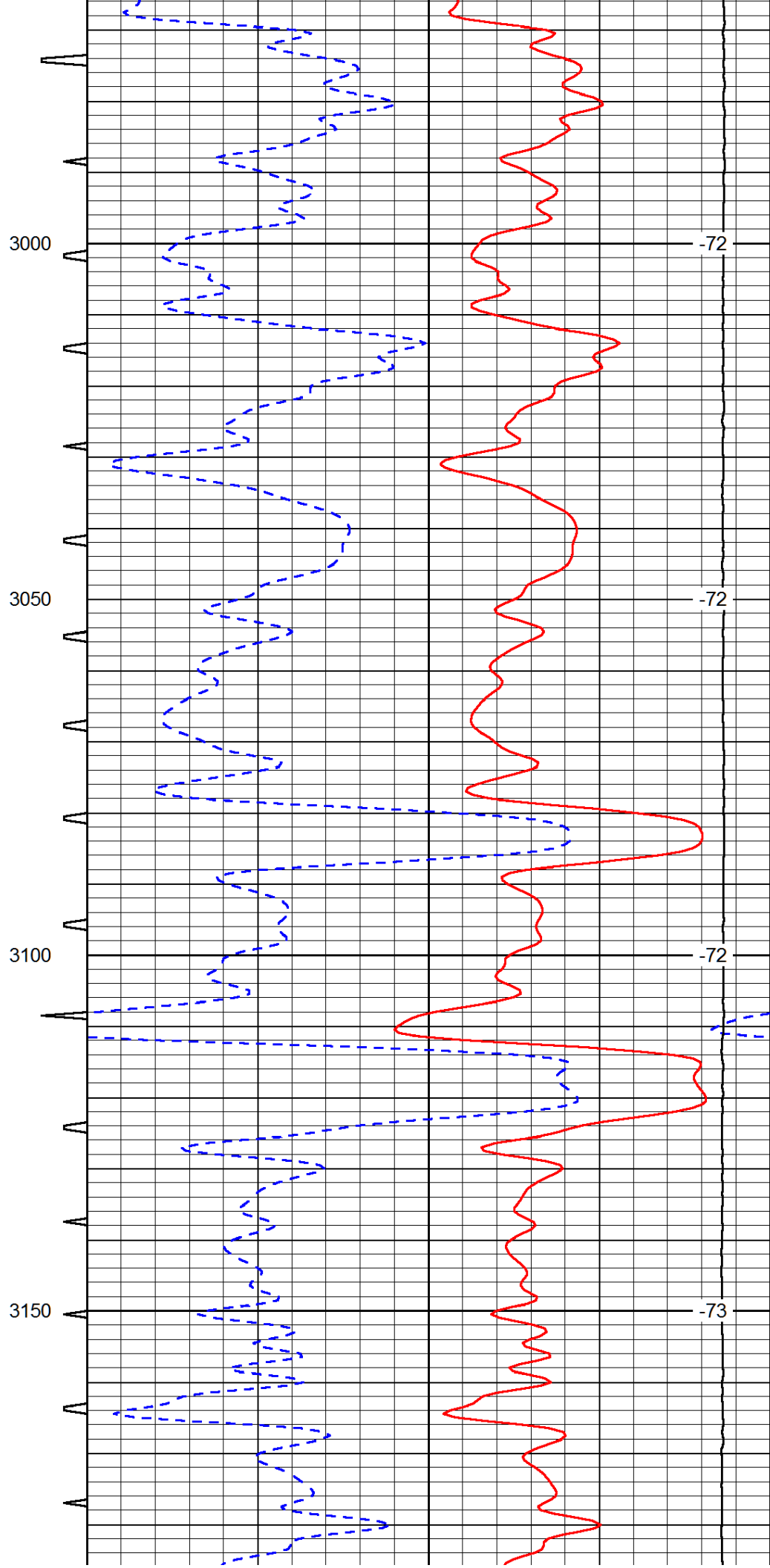
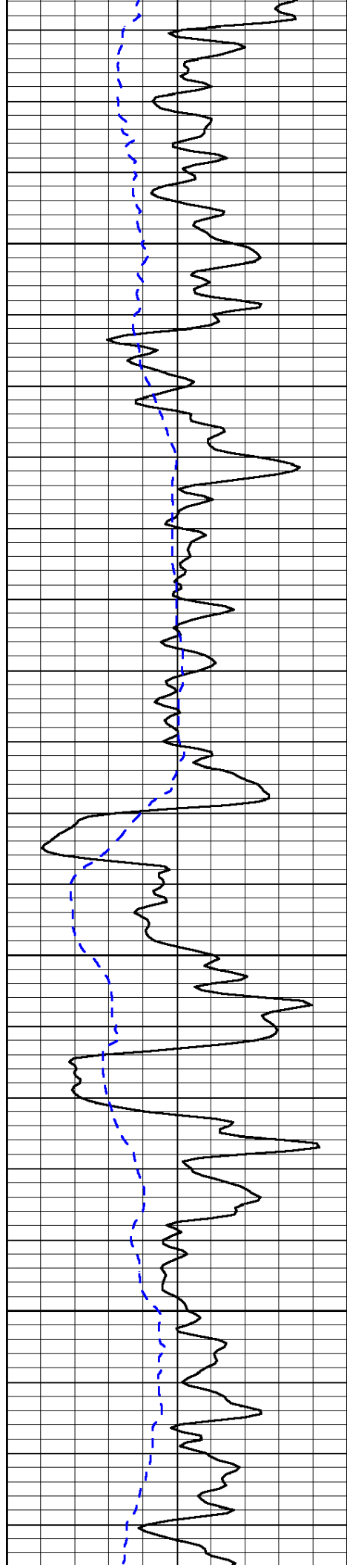


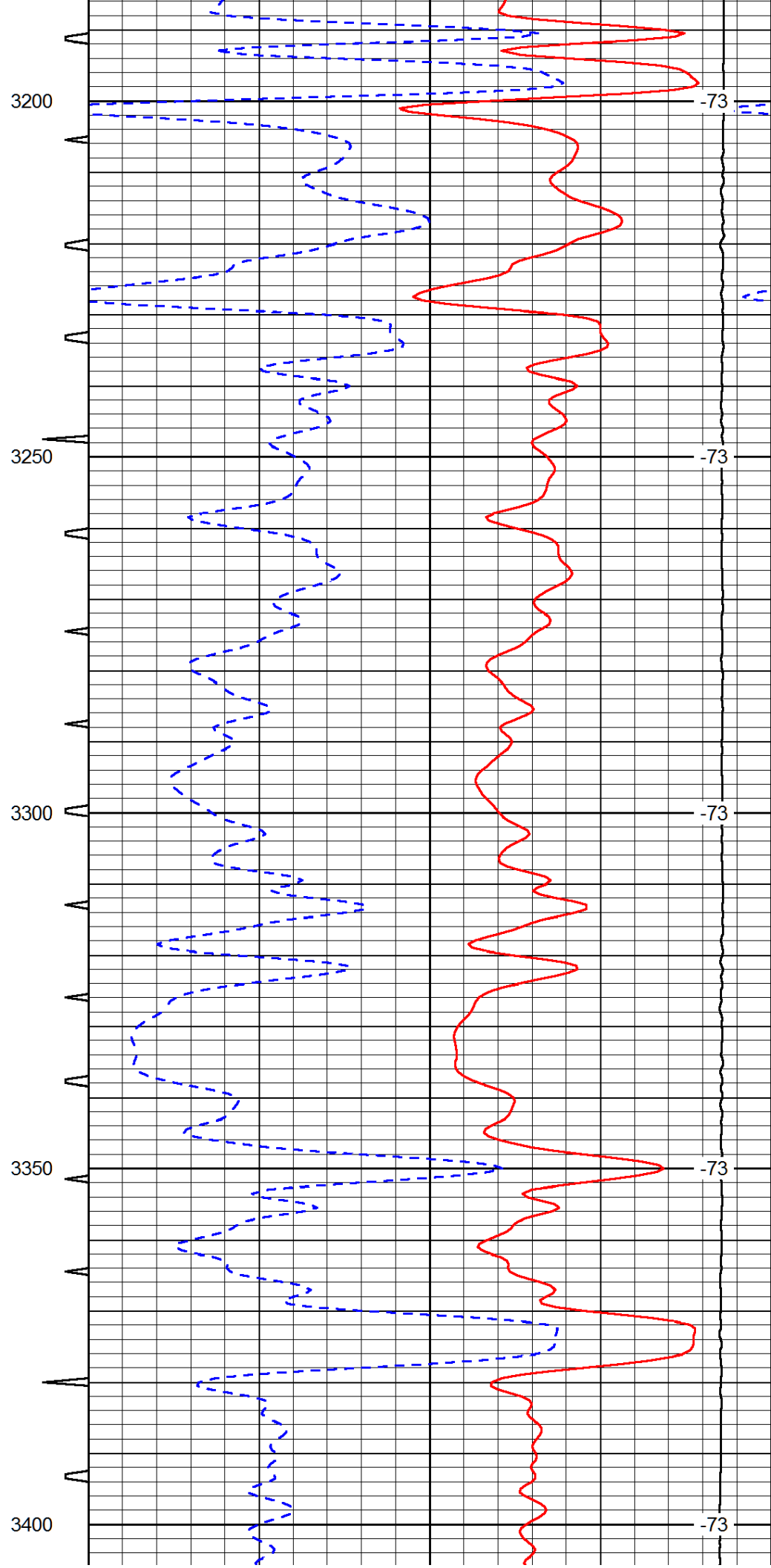
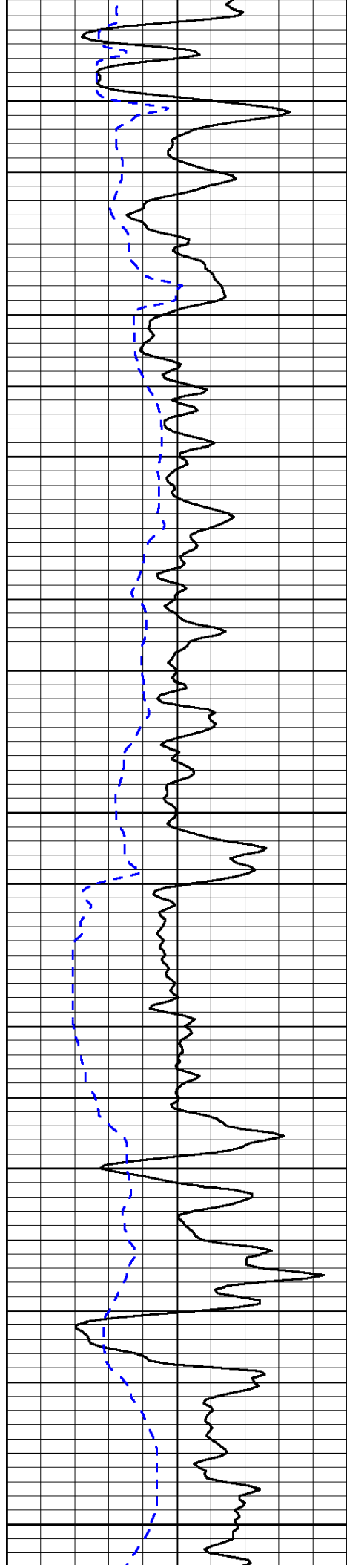


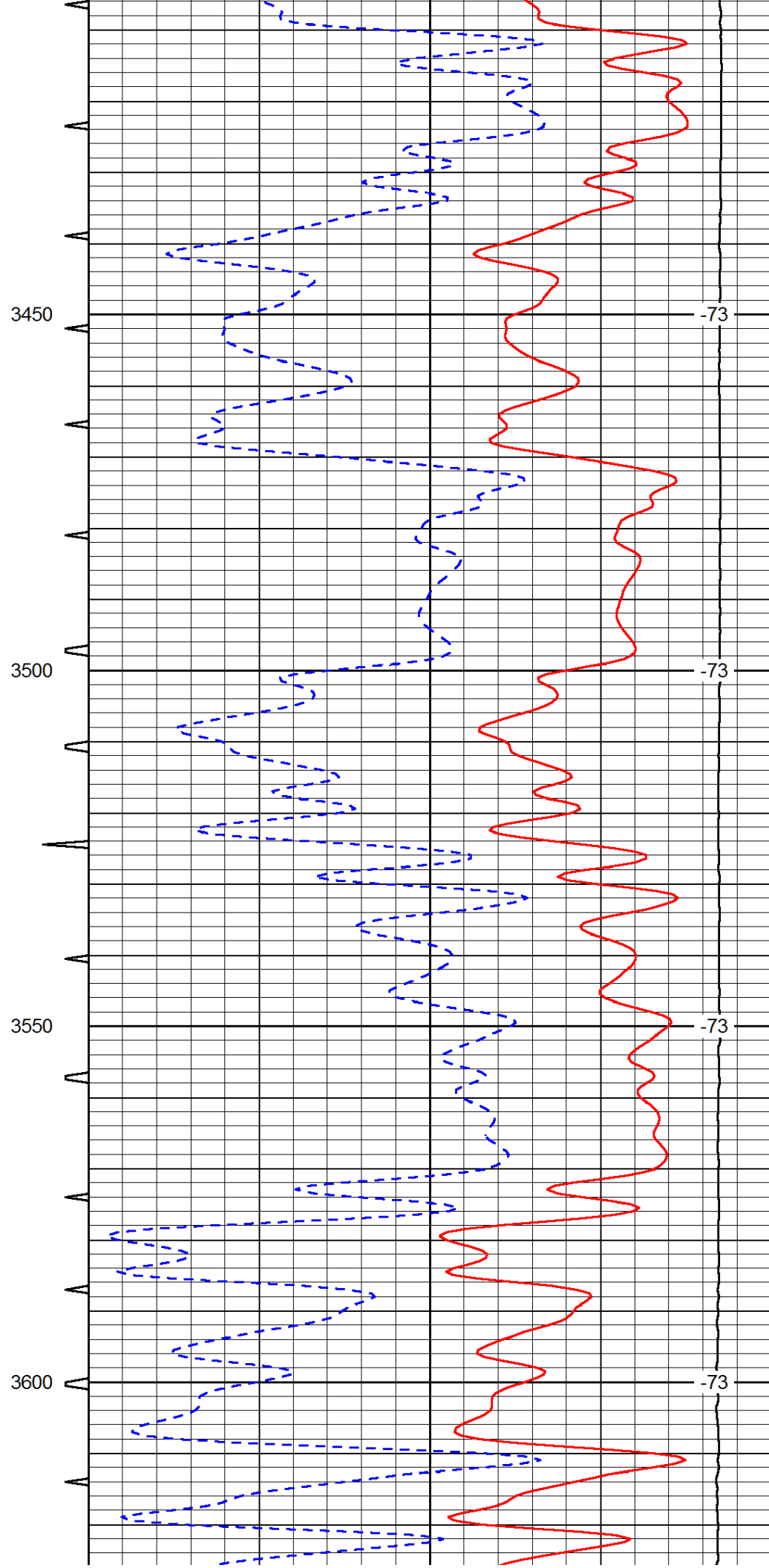
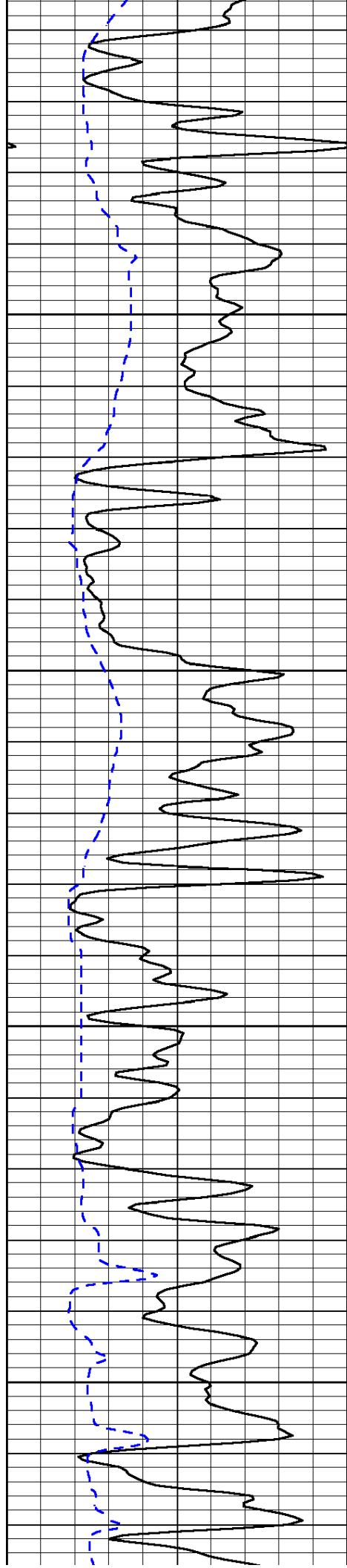


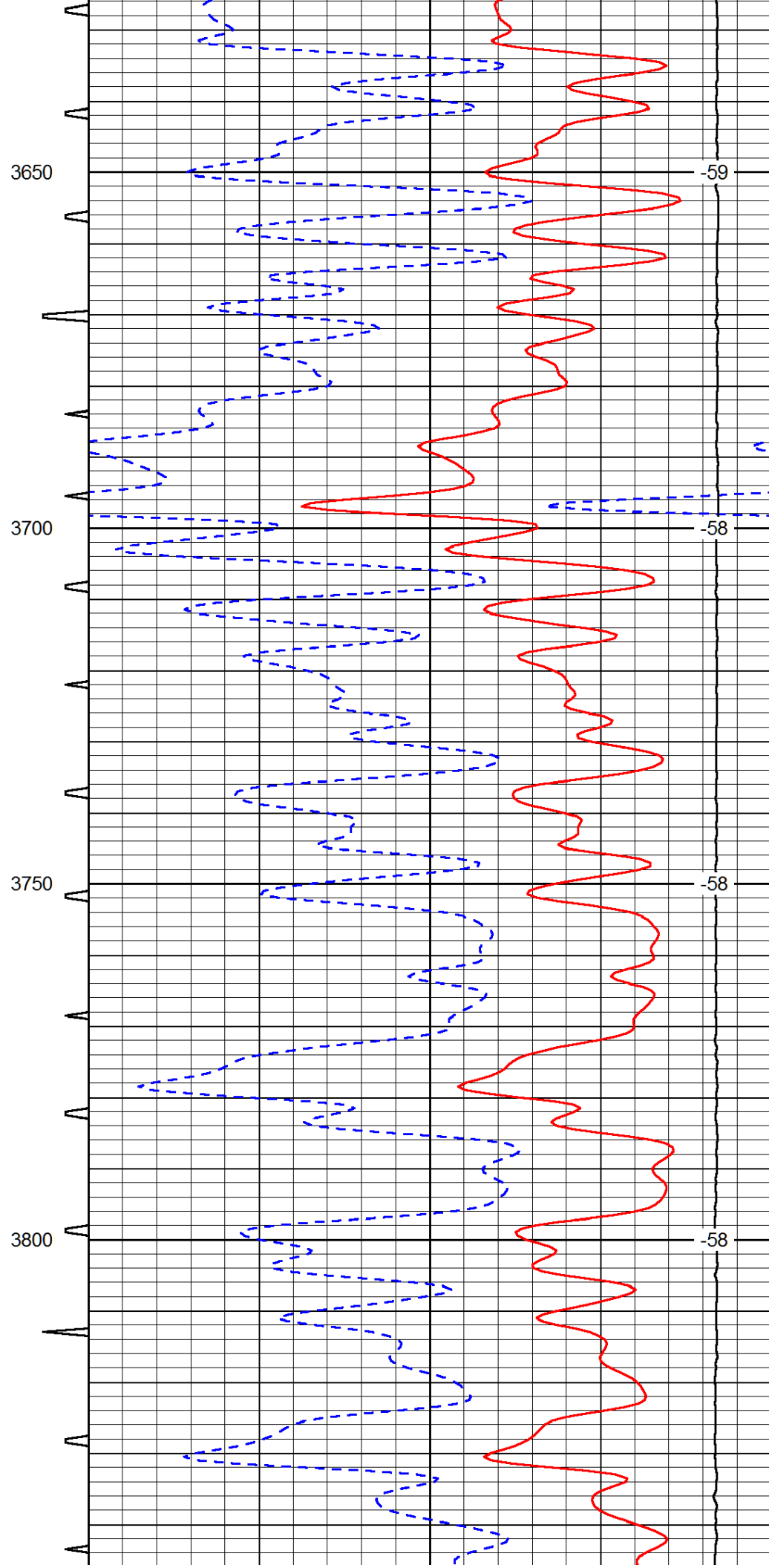
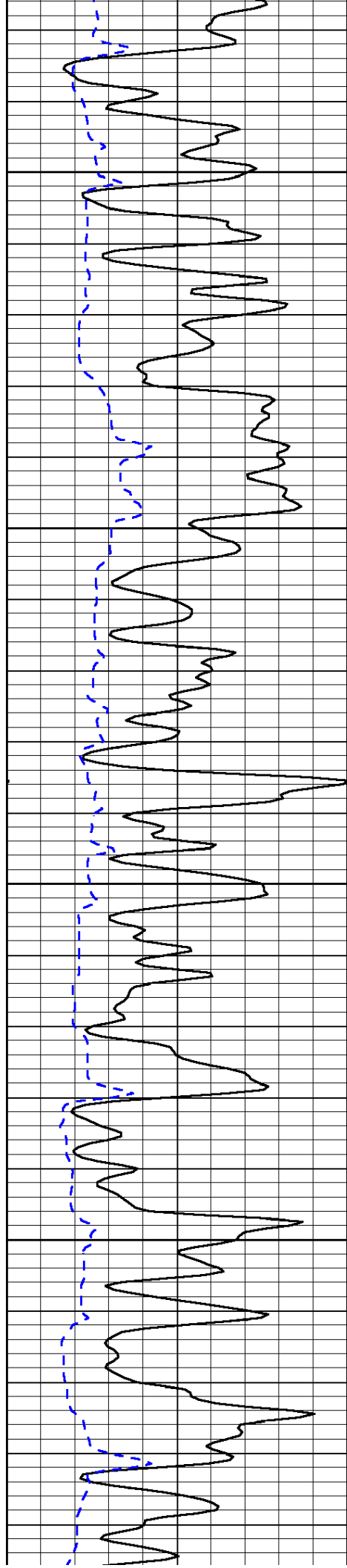


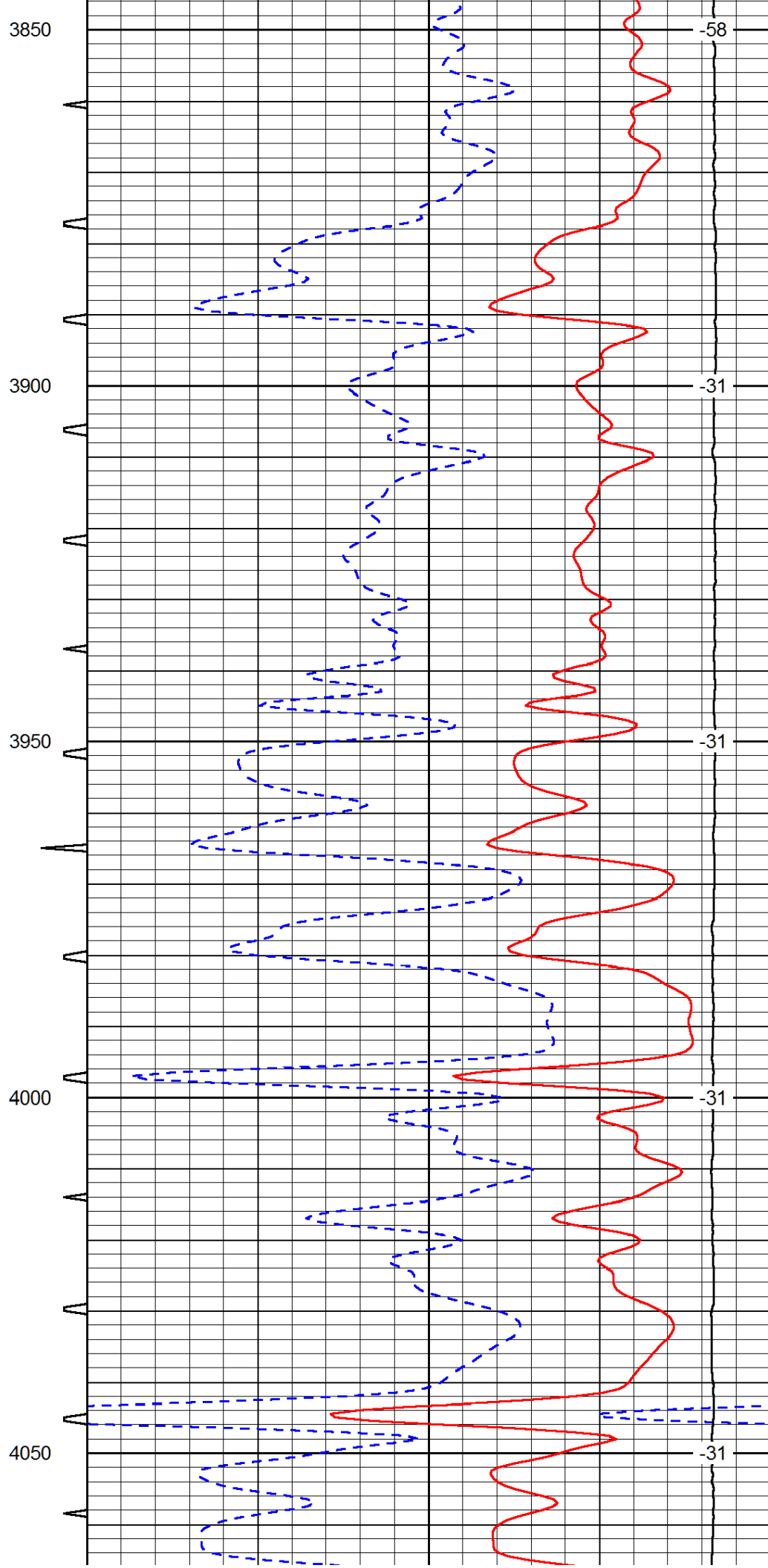
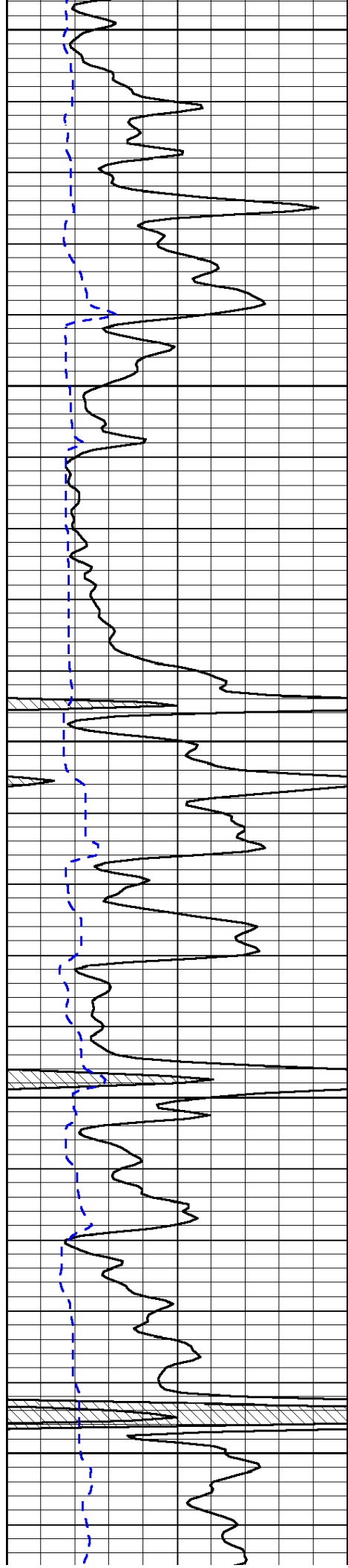


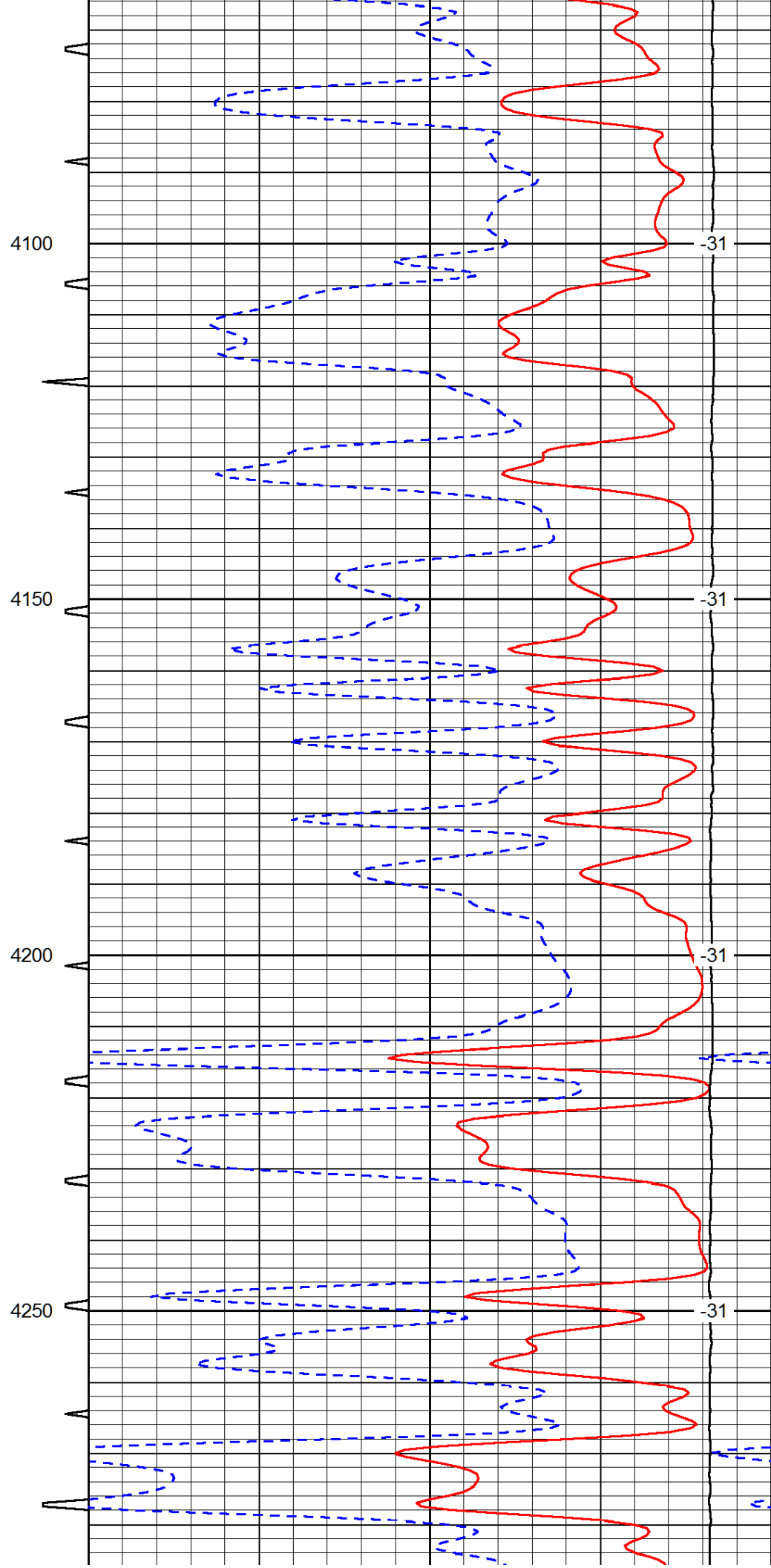
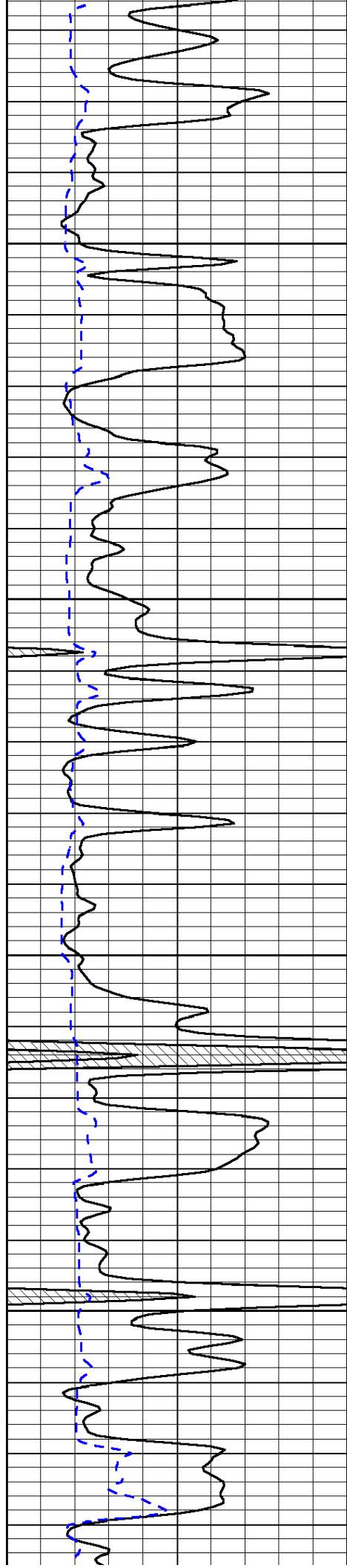


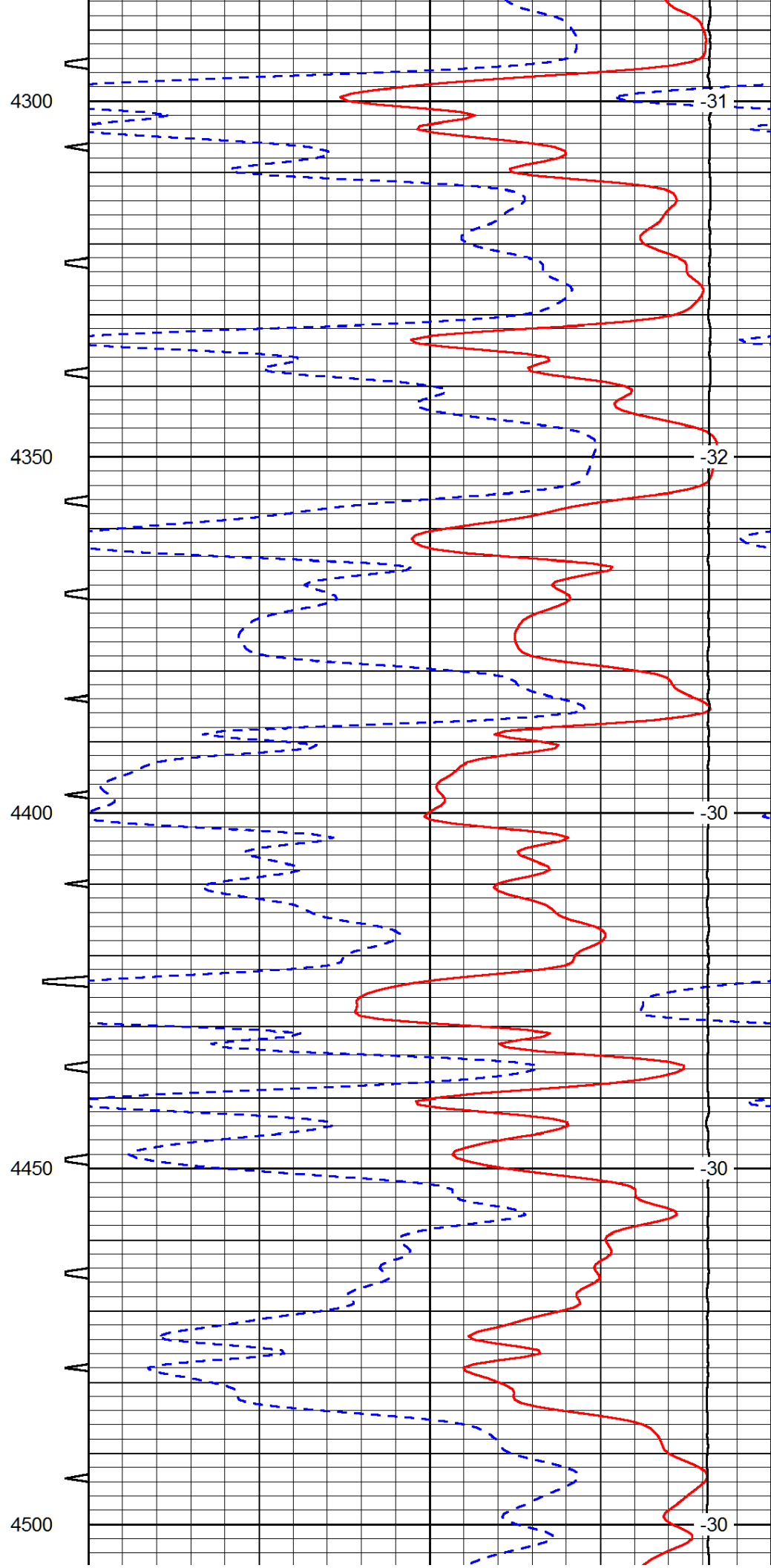
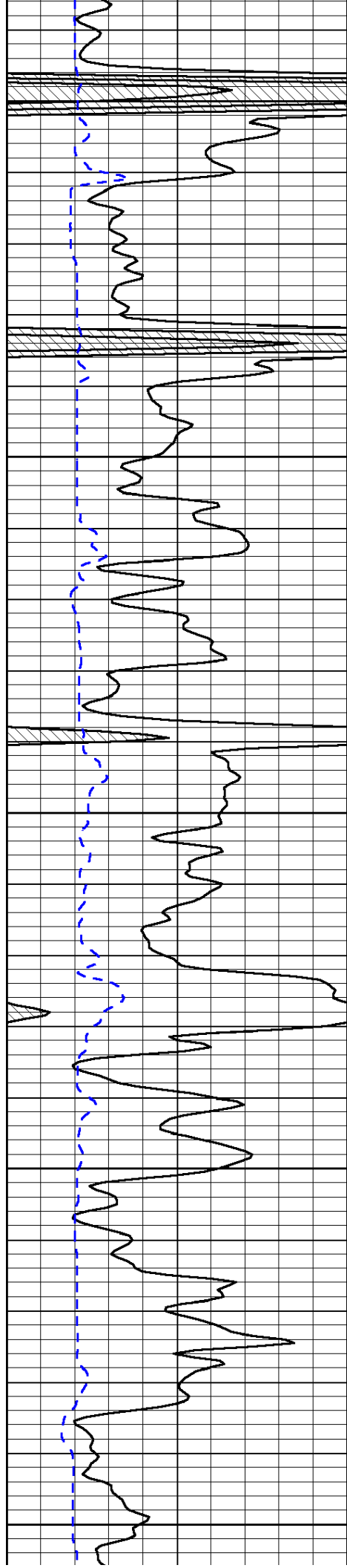


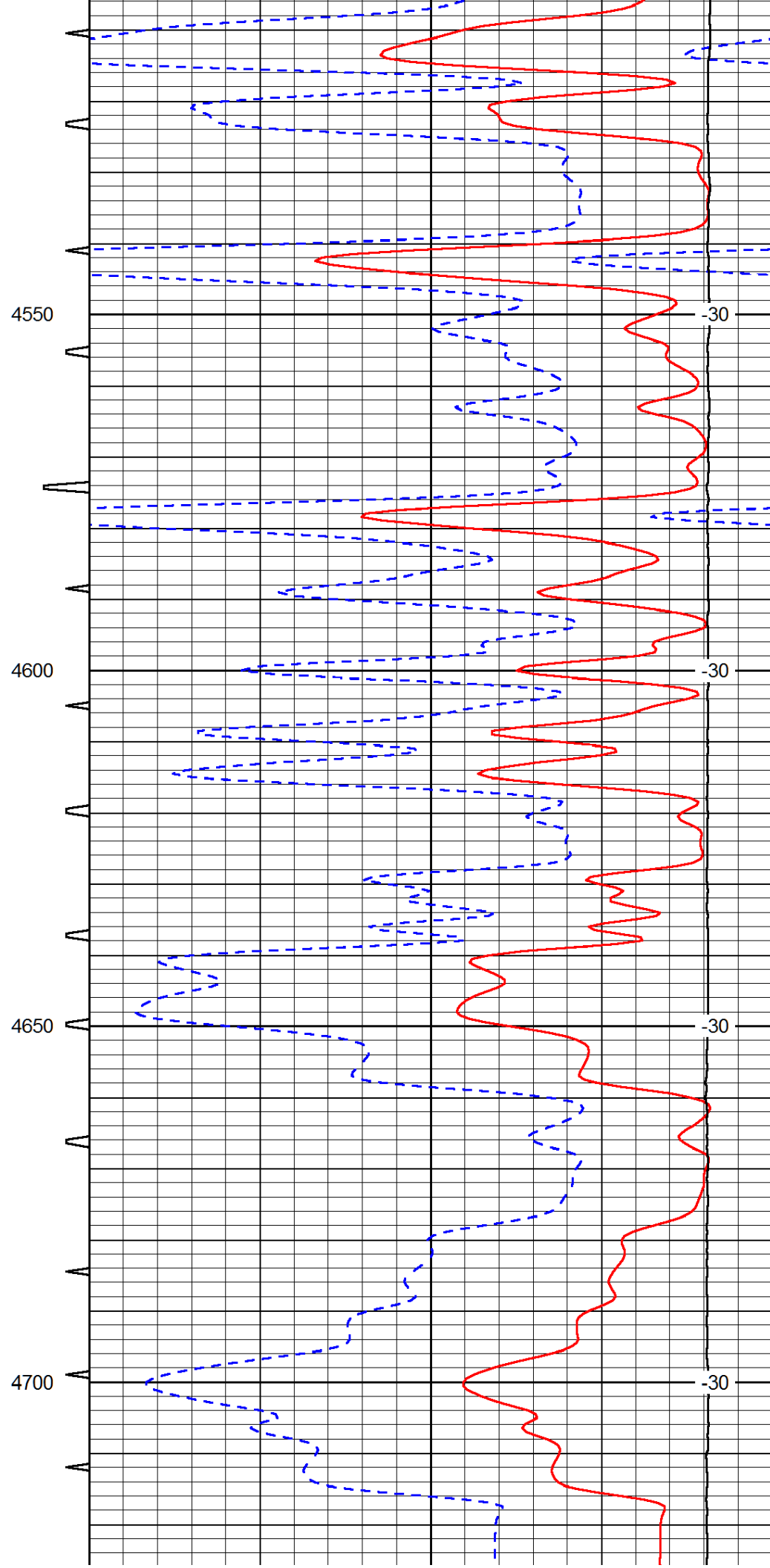
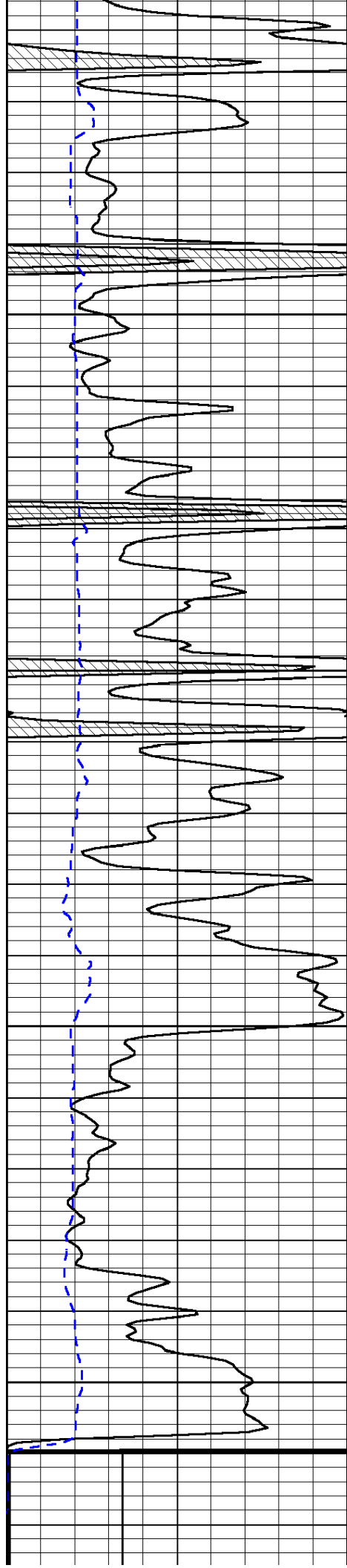












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